

## SEQUENCE LISTING

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His Gln Ser Pro Ser Lys Glu Lys Leu Ser Ser Val Thr Gln Ser Asp  
10 15 20

|   |     |
|---|-----|
| gaa gca gaa gca gcg tca gca gcg ata tct gcg gca gct gca gat gcg<br>Glu Ala Glu Ala Ala Ser Ala Ala Ile Ser Ala Ala Ala Ala Asp Ala<br>25 30 35 40     | 150 |
| gaa gct gcc gga tta tgg aca cag atc aag gcg gaa gct cgc cgt gat<br>Glu Ala Ala Gly Leu Trp Thr Gln Ile Lys Ala Glu Ala Arg Arg Asp<br>45 50 55        | 198 |
| gct gag gcg gag cca gct tta gct agc tat cta tat tgg acg att cct<br>Ala Glu Ala Ala Glu Pro Ala Leu Ala Ser Tyr Leu Tyr Ser Thr Ile Leu<br>60 65 70    | 246 |
| tct cat tgg tct ctt gaa cga tct atc tgg tct cat cta gga aac aag<br>Ser His Ser Ser Leu Glu Arg Ser Ile Ser Phe His Leu Gly Asn Lys<br>75 80 85        | 294 |
| ctt tgt tcc tca acg ctt tta tcc aca ctt tta tac gat ctg ttc tta<br>Leu Cys Ser Ser Thr Leu Leu Ser Thr Leu Leu Tyr Asp Leu Phe Leu<br>90 95 100       | 342 |
| aac act ttt tcc tcc gat cct tct ctt cgt aac gcc acc gtc gca gat<br>Asn Thr Phe Ser Ser Asp Pro Ser Leu Arg Asn Ala Thr Val Ala Asp<br>105 110 115 120 | 390 |
| cta cgc gct gct cgt gtt cgt gat cct gct tgt atc tgg ttc tct cat<br>Leu Arg Ala Ala Arg Val Arg Asp Pro Ala Cys Ile Ser Phe Ser His<br>125 130 135     | 438 |
| tgt ctc ctc aat tac aua ggc ttc cta gct acc cag gcg cat cgt gta<br>Cys Leu Leu Asn Tyr Lys Gly Phe Leu Ala Ile Gln Ala His Arg Val<br>140 145 150     | 486 |
| tca cac aag cta tgg aca caa tca cgg aag cca tta gca tta gct cta<br>Ser His Lys Leu Trp Thr Gln Ser Arg Lys Pro Leu Ala Leu Ala Leu<br>155 160 165     | 534 |
| cac tca aga atc tcc gat gta ttc gct gtt gat atc cat cca gca gcg<br>His Ser Arg Ile Ser Asp Val Phe Ala Val Asp Ile His Pro Ala Ala<br>170 175 180     | 582 |
| aag atc gga aaa ggg ata ctt cta gac cac gca acc gga gtt gta gtc<br>Lys Ile Gly Lys Gly Ile Leu Leu Asp His Ala Thr Gly Val Val Val<br>185 190 195 200 | 630 |
| gga gaa aca gcg gtg att ggg aac aat gtt tca atc ctt cac cat gtg<br>Gly Glu Thr Ala Val Ile Gly Asn Asn Val Ser Ile Leu His His Val<br>205 210 215     | 678 |
| aca cta ggt gga aca ggt aaa gct tgt gga gat aga cat ccg aag atc<br>Thr Leu Gly Gly Thr Gly Lys Ala Cys Gly Asp Arg His Pro Lys Ile<br>220 225 230     | 726 |
| ggt gac ggt tgt ttg att gga gct gga gcg act att ctt gga aat gtg<br>Gly Asp Gly Cys Leu Ile Gly Ala Gly Ala Thr Ile Leu Gly Asn Val<br>235 240 245     | 774 |
| aag att ggt gca ggt gct aaa gta gga gct ggt tct gtt gtg ctg att<br>Lys Ile Gly Ala Gly Ala Lys Val Gly Ala Gly Ser Val Val Leu Ile<br>250 255 260     | 822 |
| gac gtg cct tgt cga ggt act gcg gtt ggg aat ccg gcg aga ctt gtc<br>Asp Val Pro Cys Arg Gly Thr Ala Val Gly Asn Pro Ala Arg Leu Val<br>265 270 275 280 | 870 |

gat cct gct tgt ata agc tac gtt cat tgt ttc ctt cac ttt aaa ggc 534  
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 205 210 215  
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 235 240 245  
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 250 255 260  
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 Ala Gly Thr Cys Ile Leu Gly Asn Ile Thr Ile Gly Glu Gly Ala Lys  
 265 270 275 280  
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 Ile Gly Ala Gly Ser Val Val Leu Lys Asp Val Pro Pro Arg Thr Thr  
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 Ala Val Gly Asn Pro Ala Arg Leu Leu Gly Gly Lys Asp Asn Pro Lys  
 300 305 310  
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 Thr His Asp Lys Ile Pro Gly Leu Thr Met Asp Gln Thr Ser His Ile  
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cac ttc aca atg tcc cta tat atg ctc cgt tca tct tct cca cac atc 102  
 His Phe Thr Met Ser Leu Tyr Met Leu Arg Ser Ser Ser Pro His Ile  
 10 15 20

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| aat cat cac tct ttc ctt cct tct ttt ggt tcc tcc aaa ttc aaa     | 150 |
| Asn His His Ser Phe Leu Leu Pro Ser Phe Val Ser Ser Lys Phe Lys |     |
| 25 30 35 40   |     |
| cac cat act tta tct cct cct cct tct cct cct cct cct cct atg     | 198 |
| His His Thr Leu Ser Pro Pro Pro Ser Pro Pro Pro Pro Pro Met     |     |
| 45 50 55  |     |
| ggt gcg tgc atc gac acc tgc cgc act ggt aaa ccc cag att tct cct | 246 |
| Ala Ala Cys Ile Asp Thr Cys Arg Thr Gly Lys Pro Gln Ile Ser Pro |     |
| 60 65 70  |     |
| cgc gat tct tct aaa cac cac gac gat gaa tct ggc ttt cgt tac atg | 294 |
| Arg Asp Ser Ser Lys His His Asp Asp Glu Ser Gly Phe Arg Tyr Met |     |
| 75 80 85  |     |
| aac tac ttc cgt tat cct gat cga tct tcc ttc aat gga acc cag acc | 342 |
| Asn Tyr Phe Arg Tyr Pro Asp Arg Ser Ser Phe Asn Gly Thr Gln Thr |     |
| 90 95 100   |     |
| aaa acc ctc cat act cgt cct ttg ctt gaa gat ctc gat cgc gac gct | 390 |
| Lys Thr Leu His Thr Arg Pro Leu Leu Glu Asp Leu Asp Arg Asp Ala |     |
| 105 110 115 120   |     |
| gaa gtc gat gat gtt tgg gcc aaa atc cga gaa gag gct aaa tct gat | 438 |
| Glu Val Asp Asp Val Trp Ala Lys Ile Arg Glu Glu Ala Lys Ser Asp |     |
| 125 130 135   |     |
| atc gcc aaa gaa cct att gtt tcc gct tat tat cac gct tcg att gtt | 486 |
| Ile Ala Lys Glu Pro Ile Val Ser Ala Tyr Tyr His Ala Ser Ile Val |     |
| 140 145 150   |     |
| tct cag cgt tcg ttg gaa gct gcg ttg gcg aat act tta tct gtt aaa | 534 |
| Ser Gln Arg Ser Leu Glu Ala Ala Leu Ala Asn Thr Leu Ser Val Lys |     |
| 155 160 165   |     |
| ctc agc aat ttg aat ctt cca agc aac acg ctt ttc gat ttg ttc tct | 582 |
| Leu Ser Asn Leu Asn Leu Pro Ser Asn Thr Leu Phe Asp Leu Phe Ser |     |
| 170 175 180   |     |
| ggt gtt ctt caa gga aac cca gat att gtt gaa tct gtc aag cta gat | 630 |
| Gly Val Leu Gln Gly Asn Pro Asp Ile Val Glu Ser Val Lys Leu Asp |     |
| 185 190 195 200   |     |
| ctt tta gct gtt aag gag aga gat cct gct tgt ata agc tac gtt cat | 678 |
| Leu Leu Ala Val Lys Glu Arg Asp Pro Ala Cys Ile Ser Tyr Val His |     |
| 205 210 215   |     |
| tgt ttc ctt cac ttt aaa ggc ttc ctc gct tgt caa gcg cat cgt att | 726 |
| Cys Phe Leu His Phe Lys Gly Phe Leu Ala Cys Gln Ala His Arg Ile |     |
| 220 225 230   |     |
| gct cat gag ctt tgg act cag gac aga aaa atc cta gct ttg ttg arc | 774 |
| Ala His Glu Leu Trp Thr Gln Asp Arg Lys Ile Leu Ala Leu Leu Ile |     |
| 235 240 245   |     |
| cag aac aga gtc tct gaa gcc ttc gct gtt gat ttc cac cct gga gct | 822 |
| Gln Asn Arg Val Ser Glu Ala Phe Ala Val Asp Phe His Pro Gly Ala |     |
| 250 255 260   |     |
| aaa acc ggt acc ggg att ttg cta gac cat gct acg gct att gtg atc | 870 |
| Lys Ile Gly Thr Gly Ile Leu Leu Asp His Ala Thr Ala Ile Val Ile |     |
| 265 270 275 280   |     |

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|---|------|
| ggt gag acg gcg gtt gtg ggg aac aat gtt tgg att ctc cat aac gtt | 913  |
| Gly Glu Thr Ala Val Val Gly Asn Asn Val Ser Ile Leu His Asn Val |      |
| 285   | 295  |
| acg ctt gga gga acg ggg aaa cag tct gga gat agg cac ccg aag att | 966  |
| Thr Leu Gly Gly Thr Gly Lys Gln Cys                             |      |
| 300   | 310  |
| ggc gat ggg gtt tgg att gga gct ggg act tgt att ttg ggg aat atc | 1014 |
| Gly Asp Gly Val Leu Ile Gly Ala Gly Thr Cys Ile Leu Gly Asn Ile |      |
| 315   | 325  |
| acg att ggt gaa gga gct aag att ggt gcg ggg tgg gtg gtg ttg aaa | 1062 |
| Thr Ile Gly Glu Gly Ala Lys Ile Gly Ala Gly Ser Val Val Leu Lys |      |
| 330   | 340  |
| gac gtg ccg ccg cgt acg acg gct gtt gga aat ccg gcg agg ttg ctt | 1110 |
| Asp Val Pro Pro Arg Thr Thr Ala Val Gly Asn Pro Ala Arg Leu Leu |      |
| 345   | 360  |
| ggt ggt aaa gat aat ccg aaa acg cat gac aag att cct ggt ttg act | 1158 |
| Gly Gly Lys Asp Asn Pro Lys Thr His Asp Lys Ile Pro Gly Leu Thr |      |
| 365   | 375  |
| atg gac cag acg tgg cat ata tcc gag tgg tgg gat tat gta att     | 1203 |
| Met Asp Gln Thr Ser His Ile Ser Glu Trp Ser Asp Tyr Val Ile     |      |
| 380   | 390  |
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| Met Val Asp Leu Ser Ser Phe Ser Leu Leu Phe Ala Phe Ser Val Ser |      |
| 1   | 5    |
| ctc tct ttt gtc caa tca aaa aga gtt tgt gat tct tct tta tgg tct | 96   |
| Leu Ser Phe Val Gln Ser Lys Arg Val Cys Asp Ser Ser Leu Ser Ser |      |
| 20  | 25   |
| cct tgg aga gat atg aat ggc gat gag ctt cct ttc gag agt ggt ttc | 144  |
| Pro Trp Arg Asp Met Asn Gly Asp Glu Leu Pro Phe Glu Ser Gly Phe |      |
| 35  | 40   |
| gag gtt tac gct aag gga act cat aag tca gag ttt gac tgg aat ttg | 192  |
| Glu Val Tyr Ala Lys Gly Thr His Lys Ser Glu Phe Asp Ser Asn Leu |      |
| 50  | 55   |
| ctt gat cct cgt tct gat cct att tgg gat gct ata aga gaa gaa gct | 240  |
| Leu Asp Pro Arg Ser Asp Pro Ile Trp Asp Ala Ile Arg Glu Glu Ala |      |
| 65  | 70   |

|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|
| aaa<br>Lys | ctt<br>Leu | gag<br>Glu | gca<br>Ala | gag<br>Glu | aaa<br>Lys | gag<br>Glu | ccg<br>Pro | att<br>Ile | ctg<br>Leu | agt<br>Ser | agc<br>Ser | ccc<br>Phe | ctg<br>Leu | tat<br>Tyr | gct<br>Ala | 288  |
| ggc<br>Gly | atc<br>Ile | tta<br>Leu | gca<br>Ala | cat<br>His | gat<br>Asp | tgt<br>Cys | tta<br>Leu | gag<br>Glu | caa<br>Gln | gct<br>Ala | tta<br>Leu | ggg<br>Gly | ttc<br>Phe | gtt<br>Val | cta<br>Leu | 336  |
| gcc<br>Ala | aac<br>Asn | cgt<br>Arg | ctc<br>Leu | caa<br>Gln | aac<br>Asn | cca<br>Pro | acc<br>Thr | tig<br>Leu | tig<br>Leu | gca<br>Ala | aca<br>Thr | caa<br>Gln | ctc<br>Leu | tgg<br>Leu | gat<br>Asp | 384  |
| ata<br>Ile | ttt<br>Phe | tat<br>Tyr | ggt<br>Gly | gtt<br>Val | atg<br>Met | atg<br>Met | cat<br>His | gac<br>Asp | aaa<br>Lys | ggt<br>Gly | att<br>Ile | cag<br>Gln | agt<br>Ser | tgg<br>Ser | att<br>Ile | 432  |
| cgc<br>Arg | cat<br>His | gat<br>Asp | ctc<br>Leu | cag<br>Gln | gca<br>Ala | ttt<br>Phe | aaa<br>Lys | gat<br>Asp | cgt<br>Arg | gat<br>Asp | ccg<br>Pro | gct<br>Ala | tgt<br>Cys | ctg<br>Leu | tgg<br>Ser | 480  |
| tat<br>Tyr | agt<br>Ser | tct<br>Ser | gct<br>Ala | att<br>Ile | tta<br>Leu | cat<br>His | ctg<br>Leu | aag<br>Lys | ggt<br>Gly | tat<br>Tyr | cat<br>His | gcg<br>Ala | tta<br>Leu | caa<br>Gln | gca<br>Ala | 528  |
| tat<br>Tyr | agg<br>Arg | gtt<br>Val | gcg<br>Ala | cat<br>His | aaa<br>Lys | ctg<br>Leu | tgg<br>Trp | aac<br>Asn | gaa<br>Glu | ggg<br>Gly | agg<br>Arg | aaa<br>Lys | cta<br>Leu | tta<br>Leu | gct<br>Ala | 576  |
| ctt<br>Leu | gca<br>Ala | tgg<br>Leu | caa<br>Gln | agc<br>Ser | cga<br>Arg | ata<br>Ile | agg<br>Ser | gag<br>Glu | gtt<br>Val | cca<br>Phe | ggc<br>Gly | att<br>Ile | gac<br>Asp | ata<br>Ile | cat<br>His | 624  |
| cca<br>Pro | gcg<br>Ala | gca<br>Ala | aga<br>Arg | att<br>Ile | ggg<br>Gly | gag<br>Glu | gga<br>Gly | ata<br>Ile | ctg<br>Leu | ctg<br>Leu | gat<br>Asp | cat<br>His | gga<br>Gly | act<br>Thr | gga<br>Gly | 672  |
| gtg<br>Val | gtc<br>Val | att<br>Ile | ggt<br>Gly | gag<br>Glu | acc<br>Thr | gct<br>Ala | gtg<br>Val | ata<br>Ile | ggc<br>Gly | aac<br>Asn | ggt<br>Gly | gtc<br>Val | tgg<br>Ser | ctc<br>Ile | tta<br>Leu | 720  |
| cat<br>His | ggt<br>Gly | gtg<br>Val | act<br>Thr | tta<br>Leu | gga<br>Gly | gga<br>Gly | acc<br>Thr | gga<br>Gly | aag<br>Lys | gaa<br>Glu | act<br>Thr | ggc<br>Gly | gat<br>Asp | cgc<br>Arg | cac<br>His | 768  |
| cca<br>Pro | aag<br>Lys | ata<br>Ile | ggt<br>Gly | gaa<br>Glu | ggt<br>Gly | gca<br>Ala | tgg<br>Leu | ctt<br>Leu | gga<br>Gly | gct<br>Ala | tgt<br>Cys | gtg<br>Val | act<br>Thr | ata<br>Ile | ctt<br>Leu | 816  |
| ggt<br>Gly | aac<br>Asn | ata<br>Ile | agc<br>Ser | ata<br>Ile | ggt<br>Gly | gct<br>Ala | gga<br>Gly | gca<br>Ala | atg<br>Met | gta<br>Val | gct<br>Ala | gca<br>Ala | ggt<br>Gly | tta<br>Ser | ctt<br>Leu | 864  |
| gtg<br>Val | tta<br>Leu | aaa<br>Lys | gac<br>Asp | gtt<br>Val | ccg<br>Pro | tgg<br>Ser | cat<br>His | agt<br>Ser | gtg<br>Val | gtg<br>Val | gct<br>Ala | gga<br>Gly | aac<br>Asn | ccg<br>Pro | gca<br>Ala | 912  |
| aaa<br>Lys | ctg<br>Leu | atc<br>Ile | agg<br>Arg | gtc<br>Val | atg<br>Met | gaa<br>Glu | gag<br>Glu | caa<br>Gln | gac<br>Asp | ccg<br>Pro | tct<br>Ser | cta<br>Leu | gca<br>Ala | atg<br>Met | aaa<br>Lys | 960  |
| cac<br>His | gat<br>Asp | gct<br>Ala | act<br>Thr | aaa<br>Lys | gag<br>Glu | ttc<br>Phe | ttt<br>Phe | cga<br>Arg | cat<br>His | gca<br>Val | gct<br>Ala | gat<br>Asp | ggt<br>Gly | tac<br>Tyr | aaa<br>Lys | 1008 |

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ttg tct tct ctt cca atg att gtc tcc cgg aac ttt tct gcc aga gac 96  
Leu Ser Ser Leu Pro Met Ile Val Ser Arg Asn Phe Ser Ala Arg Asp  
20 25 30

gat gga gag acc ggt gac gag ttt cct ttc gag agg att ttc ccg gtc 144  
Asp Gly Glu Thr Gly Asp Glu Phe Pro Phe Glu Arg Ile Phe Pro Val  
35 40 45

tac gct aga gga acc ctt aat ccc gtg gcc gac ccc gtt ttg ctg gat 192  
Tyr Ala Arg Gly Thr Leu Asn Pro Val Ala Asp Pro Val Leu Leu Asp  
50 55 60

ttt acc aat tct agt tat gac cca att tgg gat tct ata aga gaa gaa 240  
Phe Thr Asn Ser Ser Tyr Asp Pro Ile Trp Asp Ser Ile Arg Glu Glu  
65 70 75 80

gct aag ctt gag gca gaa gag gag ccg gtt ttg agt agc ttc ttg tat 288  
Ala Lys Leu Glu Ala Glu Glu Glu Pro Val Leu Ser Ser Phe Leu Tyr  
85 90 95

gct agt atc ttg tgg cat gac tgt tta gag caa gca ttg agt ttt gtt 336  
Ala Ser Ile Leu Ser His Asp Cys Leu Glu Gln Ala Leu Ser Phe Val  
100 105 110

cta gct aac cgt ctc caa aac cct acc ttg ttg gca act cag ctt atg 384  
Leu Ala Asn Arg Leu Gln Asn Pro Thr Leu Leu Ala Thr Gln Leu Met  
115 120 125

gat ata ttt tgc aac gtt atg gta cat gac aga ggt att caa agc tgc 432  
Asp Ile Phe Cys Asn Val Met Val His Asp Arg Gly Ile Gln Ser Ser  
130 135 140

att cgt ctt gat gtt cag gca ttc aaa gac aga gat cct gct tgt cta 480  
Ile Arg Leu Asp Val Gln Ala Phe Lys Asp Arg Asp Pro Ala Cys Leu  
145 150 155 160

tgg tat agt tgg gct att tta cat ctg aag ggc tat ctt gca ctg cag 528  
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52

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45

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<212> Artificial sequence

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53

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<212> DNA

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44

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<211> 53

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<223> Artificial sequence description:  
synthetic oligonucleotide

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53

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<211> 49

<212> DNA

<213> Artificial sequence

<223> Artificial sequence description:  
synthetic oligonucleotide

gagagaggat ccgacaagtt ggcataattt atgggtggatc tatcttctt

49

<213> Artificial sequence

<223> Artificial sequence description:  
synthetic oligonucleotide

cctgtgtgac tgtcgtgtag tactctagaa actcgagaga gag

43

<213> Artificial sequence

<223> Artificial sequence description:  
synthetic oligonucleotide

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67

<213> Artificial sequence

<223> Artificial sequence description:  
synthetic oligonucleotide

tacctcgtag cactcagaac tctagaaact cgagggagag

40